OUTLINE FOR ENGINEERING EVALUATION/COST ANALYSIS (EE/CA) SCOPE-OF-WORK UNDER CERCLA/SARA

1. Site Description, Project Planning Overview, and Objectives

****
Refer to the RI/FS outline for additional information on the topics to be covered here. Section 1. presents information developed by the project team for the Contractor's information.
****

1.1 Site Description

1.1.1 Location

1.1.2 Site Background

1.1.3 Previous Studies and Results

1.1.4 Regulatory Authorities

****
Include appropriate references to regulatory program/ authority under which the site is being addressed (i.e. CERCLA/SARA, Executive Order 12088, the National Contingency Plan, NEPA, any IAGs).

Furthermore, the manager should contact the state at non-NPL sites in order to determine if there are any state requirements for removal actions. The appropriate information gathered should be summarized here. The appropriate manager should add any statutory requirements imposed by the state. If there are no state requirements, the manager should contact the EPA region for other guidance. State requirements or other EPA guidance should be discussed here.
****

1.2 Project Planning Overview and Objectives

****
Refer to the RI/FS scope outline for additional information on general approaches to developing project objectives for project planning. The described approach would be most appropriate if additional sampling may be necessary.

This section should summarize the applicability of general EE/CA objectives to the project as the USACE team understands it. An EE/CA is a comparative analysis of removal action options for a CERCLA site. EE/CAs are required only for non-time-critical removal actions (RA)/expedited response actions (ERAs). Non-time-critical removal actions are those which address releases or threats of releases where the lead agency determines that more than 6 months are available for planning prior to undertaking a removal.

EE/CAs are not required for time-critical removal actions, however, they may be done. This determination is made at the discretion of the lead federal agency. Future follow-on work at these sites should be anticipated, such as an RI/FS and Record of Decision, as necessary.
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1.2.1 Site Strategy Development
1.2.2 Project Objectives and Project Decision Statements
1.2.3 Data Quality Objectives
1.3 Summary of Tasks

****
The elements of an EE/CA are similar to the elements required in an RI/FS, and could be construed as a focused or limited RI/FS, in view of statutory requirements, cost, and time constraints of a removal action. The following is only a superficial listing of tasks to be performed under this scope-of-work. No details are specified in this section.
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Task 1 - Project Planning
Task 2 - Community Relations
Task 3 - Field Investigations
Task 4 - Sample Analyses, Data Assessment and Reporting
Task 5 - Data Evaluation
Task 6 - Development/Refinement of Removal Action Objectives
Task 7 - Development and Initial Screening of Removal Action Alternatives
Task 8 - Treatability Studies
Task 9 - Detailed Analysis of Removal Alternatives
Task 10 - Comparison of Alternatives and Proposal of Removal Action
Task 11 - EE/CA Report
Task 12 - Action Memorandum Preparation

Task 13 - Post EE/CA Support
1.4 References

****
Include citations of previous reports, guidance documents, etc. Note which ones are to be provided to the Contractor. Previous reports or other historical documents should only be referenced if the team possesses or can locate them.
****

2. Project Requirements
2.1 Task 1 Project Planning
2.1.1 Available Data Review

****
This section requires the Contractor to compile available data as it relates to the preparation of the EE/CA and requires the Contractor to visit the site. Based on these activities, the Contractor should be required to assess any data gaps which would affect preparation of the EE/CA. This can be prepared by any team member, but probably best done by the project manager.
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2.1.1.1 Review Previous Reports/Data
2.1.1.2 Site Walkover
2.1.1.3 Data Gap Identification
2.1.2 EE/CA Workplan Development

****
Refer to the RI/FS SOW outline for general requirements/explanatory text related to these topics. Note that removal action objectives are similar to RI/FS objectives, but are prepared in light of the guidance on removal actions under CERCLA.
****

2.1.2.1 Site Background Summary
2.1.2.2 Identification/Refinement of DQOs
2.1.2.3 Refinement Preliminary Removal Action Objectives
2.1.2.4 Data Collection Design
2.1.3 Preparation of Workplan Attachments

****
Refer to the RI/FS SOW outline for explanatory text for these topics. These plans would generally only be applicable if

additional sampling is required to support the preparation of the EE/CA.
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2.1.3.1 Site Safety and Health Plan (SSHP) Attachment
2.1.3.2 Chemical Data Acquisition Plan (CDAP) Attachment
2.1.3.3 Monitoring Well Installation and Drilling Plan (MWIP) Attachment
2.1.3.4 Treatability Study Workplan Attachment

2.2 Task 2 Community Relations

****
This section presents requirement for Contractor's involvement in community relations. Refer to the RI/FS outline for additional information. Note that for non-time- critical removal actions, the lead federal agency must, 1) prior to completing the EE/CA, conduct interviews to gain information on how the public would like to be involved in the process and prepare a formal community relations plan; 2) publish notice of availability and brief description of the EE/CA in a local newspaper of general distribution; 3) provide at least a 30-day comment period on the EE/CA; and 4) prepare written responses to comments on the EE/CA. The information repository and administrative record file must be established no later than the signing of the Approval Memorandum. If the site involves an active federal facility, input and comment on this section by the installation is recommended.

Refer to the RI/FS SOW outline for general requirements and explanatory text related to these topics. The appropriate manager shall ensure that the above requirements, plus any state requirements, be added to this scope.
****

2.2.1 Community Relations Plan
2.2.2 Preparation of Community Relations Support
2.2.3 Public Meetings
2.2.4 Responsiveness Summary

2.3 Task 3 Field Investigations

****
This section would require the Contractor to perform field activities in support of the EE/CA, if appropriate. Only

activities necessary to clarify data gaps and better define the scope and nature of the removal action need to be considered here. NOTE: Not all of the activities listed below are required for a given project; this list of possible activities is provided only for completeness. Because the time frame for removal actions is relatively short, field investigations should be very limited in scope.

For additional information, consult the explanatory text under the same topics in the outline for the RI/FS.
****

2.3.1 Site Topographic and Boundary Surveys
2.3.2 Geophysical Surveys
2.3.3 Soil Gas Sampling
2.3.4 Drum Sampling
2.3.5 Surface Soil Sampling
2.3.6 Surface Water/Lagoon Sampling
2.3.7 Leachate Sampling
2.3.8 Subsurface Soil Sampling
2.3.9 Monitoring Well Installation and Sampling
2.3.10 Air Sampling
2.3.11 Wipe Samples
2.3.12 Vadose Zone Permeability/Infiltration Testing
2.3.13 Aquifer Tests
2.4 Task 4 Sample Analyses, Data Assessment and Reporting

****
This section should define analytical procedures and data assessment/validation protocols for completion of the EE/CA. Based on field investigations specified in Task 3, the following sections of this task will be developed by the chemist. Analytical procedures will only be specified for appropriate matrices to be collected in the field investigations.

For additional information, consult the explanatory text in the RI/FS SOW outline.
****

2.4.1 Data Review and Assessment
2.4.1.1 Existing Data
2.4.1.2 New Data
2.4.2 Analytical Procedures
2.4.2.1 Field Screening

2.4.2.2 Water
2.4.2.2.1 Surface
2.4.2.2.2 Ground Water
2.4.2.3 Soils/Sediments/sludges
2.4.2.4 Drum Samples
2.4.2.5 Air Samples
2.4.2.6 Bench Scale Testing
2.4.3 Quality Assurance/Quality Control Samples

****
The requirement for acquisition of field QA/QC samples may be applicable only at the beginning of the treatability study to ensure an accurate characterization of the waste stream.
****

2.4.4 Laboratory Internal Quality Control
2.4.5 Method Detection Limits
2.4.6 Laboratory Turnaround Time
2.4.7 Sample Handling
2.4.8 Preservatives and Holding Times
2.4.9 Investigation-Derived Wastes

****
Treatability studies require much greater volumes than ordinary investigations. Therefore, the remaining laboratory sample may be substantial and require additional cost for disposal by the laboratory, or returning to the site for disposal via the chosen remedial alternative. It is important to collaborate with the project regulatory specialist on correct manifesting and shipping requirements.
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2.5 Task 5 Data Evaluation

****
This task would generally only be applicable if additional field sampling was required to support the EE/CA.
****

2.5.1 Comparison to Data Quality Objectives - Establish Data Usability

****
Refer to the RI/FS outline for more information on the content for this section. Note that this task would only apply if additional field data is gathered to support the EE/CA. Results of this task would be documented in the EE/CA report and would not require a separate submittal. For the

EE/CA, this section would require that usability parameters, including such items as the PARCC parameters and geotechnical/hydrogeological needs be evaluated for support to the intended use of the data; evaluation of the removal action alternatives.
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2.5.2 Refinement of Site Conceptual Model

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Refer to the RI/FS outline for more information on this section.
****

2.5.2.1 Nature and Extent of Contamination

****
This section should describe the requirements for refining the conceptual model of the nature and extent of contamination at the sites. Refer to the RI/FS outline for more information. Careful cross referencing to the EE/CA Report Section (2.11) would be helpful in avoiding a duplication of instruction on preparing items related to this activity and double payment for the work.
****

2.5.2.2 Hydrogeology

****
Refer to the RI/FS for general information on the content of this section. Many of the presentations of the data would be used in the EE/CA report. The analysis performed under this section would only be conducted to the extent possible with information gathered to meet the objectives of the EE/CA.
****

2.6 Task 6 Development/Refinement of Removal Action Objectives

****
See Enclsoure 11 to the ETL, Alternative Selection for additional information.

This section requires the Contractor to consider various criteria in developing or refining removal action objectives. Input for this section should be developed by the project team, including process engineer, project manager, and team

member responsible for the review of risk issues and/or regulatory matters.
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2.6.1 Statutory Limits

****
The scope should require that the Contractor consider statutory requirements associated with removals and discuss these in the EE/CA report. Although the statutory limits strictly apply to EPA since they use trust funds, it does not strictly apply to DOD. However, work on DOD projects should also consider these limits.
****

2.6.2 Risk Based Mitigation Requirements

****
As part of the EE/CA, an evaluation of removal/remediation requirements should include a cursory examination of risks, and requirements for reducing or mitigating those risks, that will either contribute to the final action at the site, or act to eliminate the hazard. It is assumed that a PA/SI has been performed at the site prior to consideration of any removal action activities, and that the "Risk Screening Analysis", has been written as part of the PA/SI (See PA/SI SOW Guidance). This preliminary screening analysis provides the basis for comparative analysis in the EE/CA of alternatives relative to risk mitigation or reduction. A brief qualitative analysis or summary of how each alternative reduces baseline risks, is used in selecting the removal action alternative, and requirements for this analysis should be included in this section.
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2.6.3 ARARs Development

****
The scope should require that the Contractor write a letter to all regulatory agencies requesting ARARs. Then the Contractor should also specifically analyze and determine ARARs independently.
****

2.6.4 Development or Refinement of Removal Action Scope

****
This section should actually require the Contractor to define the specific actions required by the removal (not the means, but the "end" for the action, such as removal of the drums or floating product).
****

2.6.5 Removal Action Schedule

****
The scope should require that the Contractor develop a removal action schedule and include this schedule in the EE/CA report.
****

2.7 Task 7 Development and Initial Screening of Removal Action Alternatives

****
Require the Contractor to develop alternatives in accordance with the requirements of Enclosure 11 to the ETL, Alternative Evaluation and Selection.

The definition of "removal action" precludes development of some alternatives that might otherwise be suitable. This section should be developed with input from the process engineer.
****

2.8 Task 8 Treatability Studies

****
With some exceptions, such as required pre-treatment for off-site disposal and ground water/product recovery, treatability studies are generally not appropriate for removal actions. If an off-site disposal facility requires treatability studies for acceptance, consider total acceptance of their prescribed protocol, with QA/QC requirements. Refer to Enclosure 12 to the ETL, Treatability Studies and Treatability Study Reports, for information on treatability studies.

Additional field sampling related to treatability studies should be included under Task 3 Field Investigations. Cross reference that section.
****

2.8.1 Treatability Study Workplan

2.8.2 Treatability Study Procedures
2.8.3 Treatability Study Report
2.8.3.1 Draft Treatability Study Report
2.8.3.2 Final Treatability Study Report

2.9 Task 9 Detailed Analysis of Removal Alternatives

****
See Enclosure 11 to the ETL, Alternative Evaluation and Selection for the details of selection of the most appropriate alternative.

Require the Contractor to evaluate the alternatives against the criteria described in Enclosure 11. Refer to EPA EE/CA guidance for further information. The analysis need not be extensive if time constraints preclude detailed analysis.
****

2.9.1 Technical Feasibility
2.9.2 Implementability of Alternatives
2.9.3 Institutional Considerations and other Compliance Issues
2.9.4 Effectiveness of Alternatives
2.9.5 Environmental Impacts
2.9.6 Reasonable Cost of Alternatives

****
This section should require cost estimates for the removal action alternatives which are detailed to a level commensurate with the level of design, with appropriate design contingencies applied to relevant cost items. Refer to the construction costs section of the RI/FS outline for additional information on the paragraphs under this topic. This section should be prepared with input from the appropriate cost engineering staff.
****

2.9.6.1 Construction Costs
2.9.6.2 Other Markup Costs

2.10 Task 10 Comparison of Alternatives and Proposal of Removal Action

****
See Enclosure 11 to the ETL, Alternative Evaluation and Selection, for the details of selection of the most appropriate alternative.

The Contractor should be required to identify the proposed removal action. If proposed action will exceed $2 million, include justification of need to exceed the statutory limits in the Administrative Record.
****

2.11 Task 11 EE/CA Report

2.11.1 Draft EE/CA Report

****
This section requires the Contractor to prepare a draft EE/CA report. For format, refer the Contractor to the EE/CA guidance. In general, the format is as follows:

Table of Contents
Site Characterization
Identification of Removal Action Objectives
Identification of Removal Action Alternatives
Initial Screening of Alternatives
Analysis of Remaining Alternatives
Comparative Analysis of Alternatives
Recommended Removal Alternative
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2.11.2 Final EE/CA

2.12 Task 12 Action Memorandum Preparation

****
This section requires the Contractor to prepare an action memorandum. This document would describe the proposed removal action and secures management approval to conduct the action. The responsiveness summary is a summary of significant public comments and the response to these comments.

The NCP states that the Action Memorandum should include the following:

Action Memorandum
Site background
Threat to the public health, welfare and/or the environment
Proposed actions and costs
Expected change in situation should no action be taken or should action be delayed
Important policy issues
Recommendations
Responsiveness Summary
****

2.13 Task 13 Post EE/CA Support

****
This section can require a variety of support from the Contractor. This could include design-like activities. These would be generally limited to site drawings delineating the affected materials and specifications for a contract.
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3. Project Management

****
Refer to the Project Management Section (3.) in the RI/FS scope outline for explanatory text for this section.
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- 3.1 Project Manager
- 3.2 Community Relations Support
- 3.3 Coordination with Other Entities
- 3.4 Conference Notes
- 3.5 Confirmation Notices
- 3.6 Government Support
  - 3.6.1 Government Provided Data and Information
    - 3.6.1.1 Existing Plans
    - 3.6.1.2 Surveys
    - 3.6.1.3 Air Photos
  - 3.6.2 Utilities
  - 3.6.3 Permits
  - 3.6.4 Rights of Entry
  - 3.6.5 Security
  - 3.6.6 Equipment Storage/Staging Areas
  - 3.6.7 Grading and Site Restoration
  - 3.6.8 Cuttings/Waste Disposal
- 3.7 Travel and Meetings
  - 3.7.1 Site Walkover
  - 3.7.2 Public Meetings
  - 3.7.3 Draft Treatability Study Review Conference (Option)
  - 3.7.4 Draft EE/CA Review Conference
  - 3.7.5 Other Site Visits
  - 3.7.6 Additional Trips
- 3.8 Schedules
- 3.9 Submittals

****
This section summarizes the submittals expected during the course of the project. No technical requirements are

presented here. Number of copies required are specified here.
****

3.9.1 General Submittal Requirements
3.9.2 Document Submittal Register
3.9.3 EE/CA Workplan
3.9.3.1 EE/CA Workplan
3.9.3.2 Workplan Attachments

****
These plans are described in detail in technical sections and other appendices. These plans may not be necessary if field work or a treatability study is not required.

3.9.3.2.1 Chemical Data Acquisition Plan (CDAP) Attachment
3.9.3.2.2 Site Safety and Health Plan (SSHP) Attachment
3.9.3.2.3 Monitoring Well Installation and Drilling Plan (MWIP) Attachment
3.9.3.2.4 Community Relations Plan (CRP) Attachment
3.9.3.2.5 Treatability Study Workplan Attachment
3.9.4 Progress Reports
3.9.4.1 Monthly Progress Reports
3.9.4.2 Daily Quality Control Reports
3.9.5 Survey Documents
3.9.6 Drill Logs/Monitoring Well Construction Diagrams
3.9.7 Treatability Study Report

****
Include if appropriate. See A Enclosure 12 to the ECL, Treatability Studies and Treatability Study Reports for the details.
****

3.9.7.1 Draft Treatability Study Report
3.9.7.2 Final Treatability Study Report
3.9.8 EE/CA Report
3.9.8.1 Draft EE/CA Report
3.9.8.2 Final EE/CA Report
3.9.9 Cost Estimates
3.9.10 Quality Control Summary Report

3.9.11 Action Memorandum

4. Health and Safety Technical Requirements

****
This section presents the technical requirements for health and safety. Refer to Enclosure 8 to the ECL for the suggested language for this SOW section.

Two Topics, "Site Description and Contamination Characterization" and "Staff Organization, Qualifications, and Responsibilities" may be addressed as a portion of the workplan as outlined in section 2.1. In the event this material is addressed within the workplan (WP), the applicable WP sections should be referenced within these sections of the SSHP. Regardless of location, these topics should address the requirements contained in Enclosure 8.
****

5. Chemistry Technical Requirements

****
This section presents the technical requirements for performance of sampling and analysis activities. Specific requirements are discussed under the individual topics. Additional guidance on the typical content of this section is provided as Enclosure 13 to the ECL, Chemistry Technical Requirements. An outline of the section is provided here.
********** *****

5.1 Introduction
5.1.1 CDAP Format and Implementation Requirements
5.1.1.1 Section 1. Table of Contents
5.1.1.2 Section 2. Project Background Data
5.1.1.3 Section 3. Chemical Requirements to Support Project Data Quality Objectimes (DOS)
5.1.1.4 Section 4. Contractor Project Organization and Functional Areas of Chemistry Responsibilities
5.1.1.5 Section 5. Field Activities

****
Note that treatability studies require much greater sample volumes than ordinary investigations. Therefore, collaboration with the primary laboratory is required to define required volumes, and containment necessary.

5.1.1.5.1 Field Instrumentation and Equipment (Calibration and Maintenance)
5.1.1.5.2 Field Documentation
5.1.1.5.3 QC and QA Field Samples

****
The requirement for acquisition of field QA/QC samples may be applicable only at the beginning of the treatability study to ensure an accurate characterization of the wastestream.
****

5.1.1.5.4 Decontamination Procedures
5.1.1.5.5 Matrix: Groundwater Samples
5.1.1.5.5.1 Field Screening
5.1.1.5.5.2 Locations
5.1.1.5.5.3 Sampling Procedure
5.1.1.5.5.4 Analytical Procedure
5.1.1.5.5.5 Sample Containers, Preservations, Holding Times
5.1.1.5.6 Matrix: Surface Water Samples
5.1.1.5.6.1 Field Screening
5.1.1.5.6.2 Locations
5.1.1.5.6.3 Sampling Procedure
5.1.1.5.6.4 Analytical Procedure
5.1.1.5.6.5 Sample Containers, Preservations, Molding Times
5.1.1.5.7 Matrix: Leachate Samples
5.1.1.5.7.1 Field Screening
5.1.1.5.7.2 Locations
5.1.1.5.7.3 Sampling Procedure
5.1.1.5.7.4 Analytical Procedure
5.1.1.5.7.5 Sample Containers, Preservations, Holding Times
5.1.1.5.8 Matrix: Soil Samples
5.1.1.5.8.1 Field Screening
5.1.1.5.8.2 Locations
5.1.1.5.8.3 Sampling Procedure
5.1.1.5.8.4 Analytical Procedure
5.1.1.5.8.5 Sample Containers, Preservations, Holding Times
5.1.1.5.9 Matrix: Sludge I Sediment Samples
5.1.1.5.9.1 Field Screening

5.1.1.5.9.2 Locations
5.1.1.5.9.3 Sampling Procedure
5.1.1.5.9.4 Analytical Procedure
5.1.1.5.9.5 Sample Containers, Preservations, Holding Times
5.1.1.6 Section 6. Sample Chain of Custody, Packing and Shipping

****
It is important to collaborate with the project regulatory specialist on correct manifesting and shipping requirements.
****

5.1.1.7 Section 7. Laboratory Activities
5.1.1.7.1 Cooler Receipt Form
5.1.1.7.2 Instrument Calibration and Frequency
5.1.1.7.3 Quality Control Procedures
5.1.1.7.4 Preventive Maintenance
5.1.1.7.5 Corrective Action
5.1.1.7.6 Data Reduction, Assessment / Validation, and Documentation
5.1.1.8 Section 8. Chemical Data Quality Management Deliverables
5.1.1.8.1 Laboratory Daily Quality Control Reports
5.1.1.8.2 Quality Control Summary Report
5.1.2 Contractor Laboratory Approval
5.1.2.1 Commercial Laboratory Evaluation
5.1.2.2 Laboratory Quality Management Manual
5.1.2.3 Preliminary Questionnaire
5.1.2.4 Performance Evaluation Samples
5.1.2.5 Lab Inspection
5.1.2.6 Approval
5.1.2.7 Expiration of Validation
5.2 Miscellaneous Requirements
5.2.1 Investigation Derived Wastes

****
Treatability studies require much greater volumes than ordinary investigations. Therefore, the remaining laboratory sample may be substantial and require additional cost for disposal by the laboratory, or returning to the site for disposal via the chosen remedial alternative. It is important to collaborate with the project regulatory specialist on correct manifesting and shipping requirements.
****

6. Geotechnical Requirements

****
The variety of field investigations for an EE/CA is a subset of those appropriate for a remedial investigation; therefore, refer to text in Section 6, Geotechnical Requirements, of the RI/FS scope-of-work outline for typical requirements and other information on the topics listed below. This section is intended to set forth acceptable procedures for doing the work specified under Task 3, Field Investigations (Section 2.3).
****

- 6.1 General Specifications
  - 6.1.1 Qualified Geologist/Geotechnical Engineer
  - 6.1.2 Applicable Driller Permits and Licenses
  - 6.1.3 Compliance with State Requirements
  - 6.1.4 Utility Clearances
  - 6.1.5 Disposal of Investigation-Derived Waste (IDW)
  - 6.1.6 Explosive Ordnance Disposal
  - 6.1.7 Decontamination of Equipment/Tools
  - 6.1.8 Water Source and Testing
  - 6.1.9 Site Restoration and Protection
  - 6.1.10 Contractor Responsibility for Wells
  - 6.1.11 Site Surveying
- 6.2 Monitoring Well Installation and Drilling Plan (MWIP)
- 6.3 Subsurface Soil/Rock Sampling
  - 6.3.1 Drilling Method
  - 6.3.2 Test Pit Excavation
  - 6.3.3 Logging Requirements
  - 6.3.4 Geotechnical Sampling and Analyses
  - 6.3.5 Coring/Core Handling
  - 6.3.6 Backfilling
  - 6.3.7 Sampling Techniques
  - 6.3.8 Field Screening
  - 6.3.9 Location/Elevation Survey of Boreholes/Test Pits
- 6.4 Monitoring Well Installation
  - 6.4.1 Drilling Method
  - 6.4.2 Soil/Rock Sampling While Drilling
  - 6.4.3 Field Screening
  - 6.4.4 Casing and Screen
  - 6.4.5 Gravel/Sand Pack
  - 6.4.6 Grouting
  - 6.4.7 Surface Completion

6.8.3.7 Scenarios to be Considered
6.8.3.8 Modeling Report
6.8.4 Geochemical Modeling
6.8.4.1 Rationale
6.8.4.1 Type of Model
6.8.4.1 Scenarios to be Considered
6.8.4.1 Modeling Report
6.8.5 Surface Water Modeling
6.9 Miscellaneous Methodologies
6.9.1 Soil Gas survey Methodology
6.9.1.1 Probe Design and Placement
6.9.1.2 Probe Purging
6.9.1.3 Sample Recovery
6.9.1.4 Decontamination of Equipment
6.9.1.5 Blank, Background, and Duplicate Samples

7. Air

****
This section presents the technical requirements for performance of activities associated with air impact assessments. Enclosure 16 presents a general description of air impact assessments for those not familiar with the process.

Refer to the RI/FS outline for explanatory text. Activities performed in the EE/CA are similar to that of the RI/FS but may be limited in scope. The level of detail to be included in the SOW depends on the project and the Contractor's experience in performing air monitoring and modeling as well as the Contractor's experience in working with the Corps.
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7.1 Ambient Air Monitoring/Sampling
7.2 Meteorological Monitoring
7.2.1 Review Available Data
7.2.2 On-site Monitoring
7.2.2.1 Meteorological Tower
7.2.2.2 Data to be Collected
7.2.2.3 Data Processing, Documentation and Reporting
7.3 Emission Rate Measurements
7.4 Emission Rate Estimates
7.4.1 Uncontrolled Emission Sources
7.4.2 Remedial Action Sources
7.4.3 Emission Models
7.4.4 Emission Factors